



# LS Series

Laser Receivers & Wireless Remote Display



- Large working range
- LS-B10/LS-10W: 270° Detection  
LS-B-100: 360° detection
- Rugged, waterproof design
- Wireless & CAN compatible
- On-grade matching
- Bright Indicator Lights
- Plumb/Tilt Indication
- Universal pole clamp

## LS-B100

The LS-B100 is a low-cost grade indicate solution that makes any operator more productive.

Check out the LS-B100. Fast to set up and easy to use, this affordable depth control sensor can be mounted to your equipment and working within minutes. This unit is packed full of features such as an Accuracy Mode and Battery Life Indicator. Plus, it has a Power Save/Auto Cut Off function to save your battery life.



### SPECIFICATIONS

#### LS-B100 Receiver

<b>Detective Range</b>	175mm (6.6in)
<b>Detective Angle</b>	360°
<b>Detective Precision</b>	Mode1: ±3mm (0.009ft) Mode2: ±6mm (0.019ft) Mode3: ±15mm (0.049ft) Mode4: ±30mm (0.098ft)
<b>Detectable Laser Wave Length</b>	633 to 785nm
<b>Laser Detecting Range</b> (diameter)	800m (2625ft) (using RL-100 1S/2S)
<b>Internal Battery</b>	C-size dry cells 4pcs. Battery pack BT-68Q (sold separately)
<b>External Power Supply</b>	DC 10V to 30V
<b>Continuous Operating Time</b> (+20°C/+68°F)	Approximately 100 hours (Using alkaline manganese dry cells) Approximately 50 hours (Using Battery pack BT-68Q)
<b>Operating Temperature</b>	-20°C to + 50°C (-4°F to +122°F)
<b>Water Proof</b>	IP66 (Based on the standard IEC60529)
<b>Dimensions (W/D/H)</b>	158x166x357 (mm) (6.2"x6.5"x14.0") (With Mechanical Clamp)
<b>Weight (Without cells)</b>	2.0kg (4.4lbs)



## LS-B110

The LS-B110's added Slope and Plumb Indicators makes your grading and excavating accuracies tighter than ever.

Plus, the new LS-B110 enables you to offset the "on-grade" position with one touch. This gives you an even greater working range.

Compatible with Topcon's family of Control Boxes for all your earth moving equipment the LS-B110 can also be used in "automatic" mode to hydraulically control the elevation and/or the slope of the cutting edge.



### SPECIFICATIONS

#### LS-B110 Receiver

<b>Detective Range</b>	250mm (6.8in)
<b>Detective Angle</b>	360°
<b>Detective Precision</b>	Mode1: ±3mm (0.009ft) Mode2: ±6mm (0.019ft) Mode3: ±15mm (0.049ft) Mode4: ±30mm (0.098ft)
<b>Detectable Laser Wave Length</b>	633 to 785nm
<b>Laser Detecting Range</b> (diameter)	800m (2625ft) (using RL-100 1S/2S)
<b>Internal Battery</b>	C-size dry cells 4pcs. Battery pack BT-68Q (sold separately)
<b>External Power Supply</b>	DC 10V to 30V
<b>Continuous Operating Time</b> (+20°C/+68°F)	Approximately 80 hours (Using alkaline manganese dry cells) Approximately 40 hours (Using Battery pack BT-68Q)
<b>Operating Temperature</b>	-20°C to + 50°C (-4°F to +122°F)
<b>Water Proof</b>	IP66 (Based on the standard IEC60529)
<b>Dimensions (W/D/H)</b>	158x166x357 (mm) (6.2"x6.5"x14.0") (With Mechanical Clamp)
<b>Weight (Without cells)</b>	2.0kg (4.4lbs)





## LS-B110W

The LS-B110W is a Laser Sensor with a Wireless Remote Display . It is loaded with all the time saving features as the other LS-B units and also perfect for your larger machines where the Sensor is out of view. This equipment offers the total solution in grade management. With the one touch "On Grade" matching, MC automatic capability and built-in Plumb and Slope Indicator, you can't go wrong.

Put the LS-B110W on your Dozer, then move it to your Scraper and then onto your Excavator. This equipment does it all on virtually all your machines.



### SPECIFICATIONS

#### LS-B110W Receiver

<b>Detective Range</b>	250mm (6.8in)
<b>Detective Angle</b>	360°
<b>Detective Precision</b>	Mode1: ±3mm (0.009ft) Mode2: ±6mm (0.019ft) Mode3: ±15mm (0.049ft) Mode4: ±30mm (0.098ft)
<b>Detectable Laser Wave Length</b>	633 to 785nm
<b>Laser Detecting Range</b> (diameter)	800m (2625ft) (using RL-100 1S/2S)
<b>Internal Battery</b>	C-size dry cells 4pcs. Battery pack BT-68Q (sold separately)
<b>External Power Supply</b>	DC 10V to 30V
<b>Continuous Operating Time</b> (+20°C/+68°F)	Approximately 40 hrs (Using alkaline manganese dry cells) Approx. 18 hrs (Using Battery pack BT-68Q)
<b>Operating Temperature</b>	-20°C to + 50°C (-4°F to +122°F)
<b>Water Proof</b>	IP66 (Based on the standard IEC60529)
<b>Dimensions (W/D/H)</b>	158x166x357 (mm) (6.2"x6.5"x14.0") (With Mechanical Clamp)
<b>Weight (Without cells)</b>	2.0kg (4.4lbs)
<b>Wireless Communication</b>	20m



## LS-B10 Series and RD-100W

The LS-B10 Series are low-cost indicate solutions that were designed with two purposes in mind; to help move dirt, and grow with your company. These versatile receivers can be mounted on a array of machines, while their small, lightweight design allows them to be attached to a rod for grade checking applications as well.

To increase versatility, an RD-100W (remote display unit) can be mounted in the cab allowing the operator to view the same information that is displayed on the LS-B10W via wireless connection.

Integrated CAN support in the LS-B10W means that this system is provided with the flexibility to be used with future indicate and automatic machine control systems.



### SPECIFICATIONS

#### LS-B10 and LS-B10W Receivers

<b>Vertical Detecting Range</b>	4.72" (120mm)
<b>Horizontal Detecting Range</b>	270°
<b>On-grade Zone (LED)</b>	0.08", 0.24", 0.47", 1.18" 2mm, 6mm, 12mm, 30mm
<b>Grade LED Patterns</b>	5 grade, 2 lost beam, 1 low battery, 1 level alert
<b>LED Grade Indicators</b>	Red ( ), Green ( ), Red ( )
<b>LCD Grade Indicators</b>	5 channels on-grade + 10 gradual triangles (±5)
<b>Wireless</b>	LS-B10W: Yes / LS-B10: No
<b>Ports</b>	LS-B10W: CAN, Wireless communication LS-B10: N/A
<b>Operating Time</b>	LS-B10W: 20h / LS-B10: 100h
<b>Weight</b>	Less than 500g
<b>Size</b>	4.53 x 1.57 x 7.09" (w/magnet) 115 x 40 x 180mm (w/magnet)

#### RD-100W (Wireless Remote Display for LS-B10W)

<b>Wireless Communication</b>	20m
<b>Range</b>	(may vary depending on obstacles between the two instruments as well as other communications)
<b>Power Source</b>	AA-size dry cells 3pcs.
<b>Continuous Operating Time</b> (+20°C/+68°F)	Approximately 40 hours (Using alkaline manganese dry cells)
<b>Operating Temperature</b>	-20°C to + 50°C (-4°F to +122°F)
<b>Water Proof</b>	IP66 (Based on the standard IEC60529)
<b>Dimensions (W/D/H)</b>	110x36x176(mm) (4.3"x1.4"x6.9")
<b>Weight (Without cells)</b>	0.5kg (1.2lbs)

# Pick the Topcon Sloping Laser Best For Your Job and Budget!



## RL-100 1S & RL-100 2S HIGH ACCURACY, HIGH VALUE SLOPE LASERS

Topcon's RL-100 Series sets standards for simplicity and accuracy. Rugged, lightweight, and compact, it's twice the laser at an amazingly affordable price. The revolutionary encoding system provides the highest grade repeatability, 5 arc seconds, of any other laser. Setup-after-setup, time-after-time, you're always right on grade.

Choose from two models, RL-100 1S single slope, or RL-100 2S dual slope. The RL-100 1S provides single slopes from -5% to up to +25% and comes complete with Topcon's new LS-80B laser receiver, sensor holder, and batteries.

The RL-100 2S provides dual slopes up of +/-10% in the X axis, or up to an industry leading -5 to +25% in the Y axis. The RL-100 2S standard package includes the LS-80B laser sensor, sensor holder, batteries, plus the all-new RC-400 remote that allows complete control of the RL-100 2S up to 1000' (300m) away.

SPECIFICATIONS	RL-100 1S/RL-100 2S
<b>Repeatability</b>	5 arc sec.
<b>Horizontal Accuracy</b>	±10 arc sec.
<b>Operating Range</b>	770m (diameter)
<b>Rotation Speed</b>	300/600/900rpm
<b>Wave Length</b>	685nm visible
<b>Laser Class</b>	Class 3
<b>Operating Hours</b>	65H (Alkaline) 50H (Ni-MH)
<b>Environment</b>	IPX6
<b>Dimensions (W x H x D)</b>	8.55 in. x 9.96 in. x 6.6 in. (217mm x 253mm x 168mm)



## RT-5SW WIRELESS "SMART" SLOPE LASER

The RT-5SW is the most repeatable laser in the world, with a level vial 10 times more repeatable than the competition. You're also using world first technologies like thermal software that's derived from the characteristics of each RT-5SW after testing over extreme temperature ranges, and an auto-alignment system so unique, it's patented.

### Advanced technology, simple operation...

With the RT-5SW, simplicity starts with the RC-300 two-way communicating remote. All features of the RT-5SW are accessible. Battery life, rotation speed, and auto-alignment are a few of the time saving features displayed on the large LCD.

Slopes up to 25% can also be entered on the RT-5SW without tilting the unit.

SPECIFICATIONS	RT-5SW
<b>Accuracy</b>	±5" (1/32" @ 100') (1mm @ 40m)
<b>Operating Range</b>	1200m (diameter)
<b>Laser Source</b>	Visible Diode (680nm)
<b>Laser Power</b>	High 4.5mW/Low 2.5mW
<b>RPM (Selectable)</b>	300, 600, 900
<b>Grade Range</b>	X:±10% Y:±25%, without tilting unit
<b>Battery Life (Alkaline)</b>	45 hrs. (4 D-cells)
<b>Housing Construction</b>	Cast Aluminum
<b>Environmental</b>	Water/Dustproof (IPX6)



## RL-H4C SELF-LEVELING CONSTRUCTION LASER

Grading, excavating and general construction projects are perfect applications for the RL-H4C. With the added "Slope Matching" feature you can check grade on all your flat and slope work.

With electronic self leveling you hit the Power Button and go right to work in seconds. If your RL-H4C gets disturbed on the job it relevels itself automatically. Its super-fast self-leveling motors are accurate to +/-10 arc seconds.

With the IP66 rating, the RL-H4C is "jobsite tough" and can withstand dust, a sudden shower and even torrential rainfall. The RL-H4C gives you the option of 60 hours of continuous usage with the Rechargeable Battery Pack or 100 hours with (4) D Cell Batteries.

SPECIFICATIONS	RL-H4C
<b>Beam Type</b>	Red (Visible Diode)
<b>Light Source</b>	Visible Laser: 635 nm
<b>Operating Range</b>	800m (diameter)
<b>Accuracy</b>	±10 arc seconds
<b>Self-Leveling Range</b>	±5 Degrees
<b>Slope Range</b>	+/-5%
<b>Rotation Speed</b>	600 rpm
<b>Battery Life</b>	Approx. 100 hours
<b>Dimensions</b>	(216.5mm x 195.6mm x 177mm)
<b>Environmental</b>	Water/Dustproof (IP66)

Your local Authorized Topcon dealer is:



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